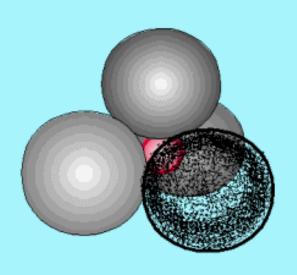
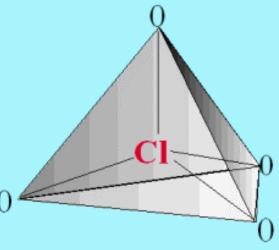


PERCHLORATE CIO₄-





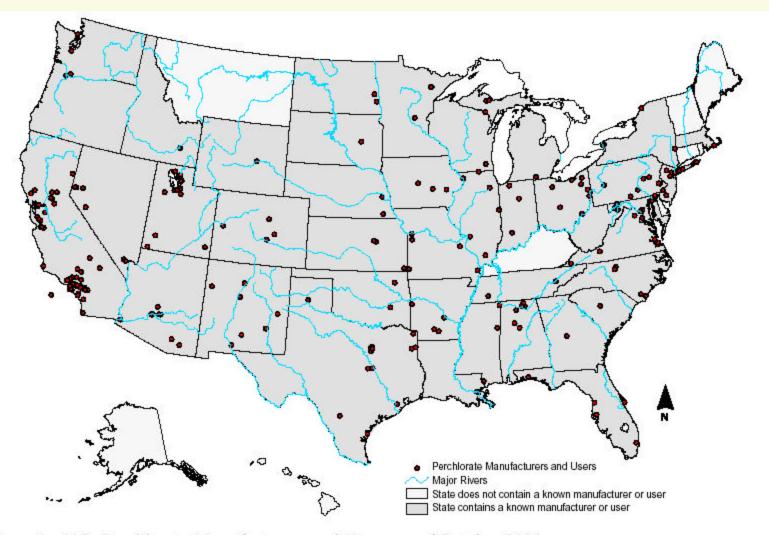


Figure 1: U.S. Perchlorate Manufacturers and Users, as of October 2001

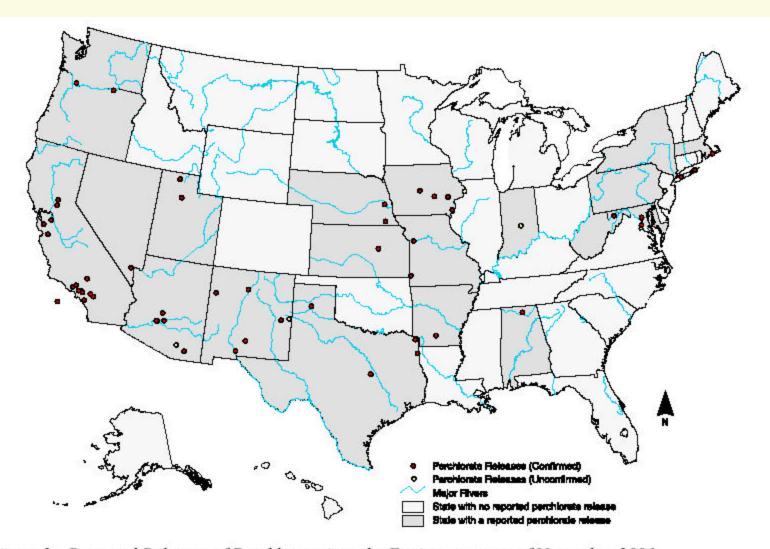
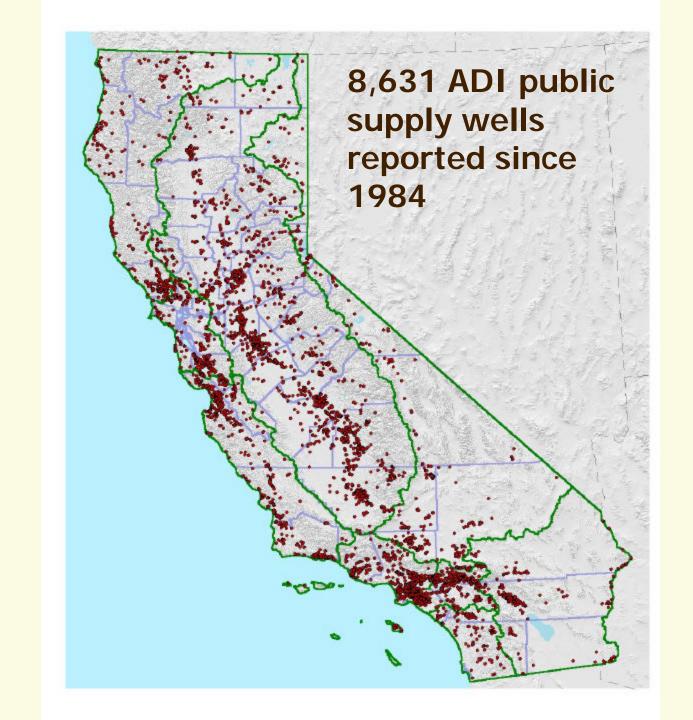


Figure 2: Reported Releases of Perchlorate into the Environment, as of November 2001



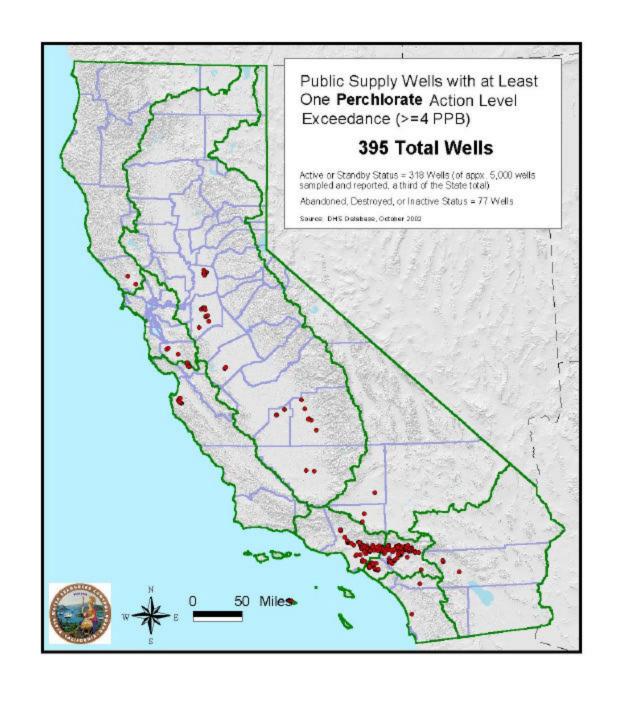


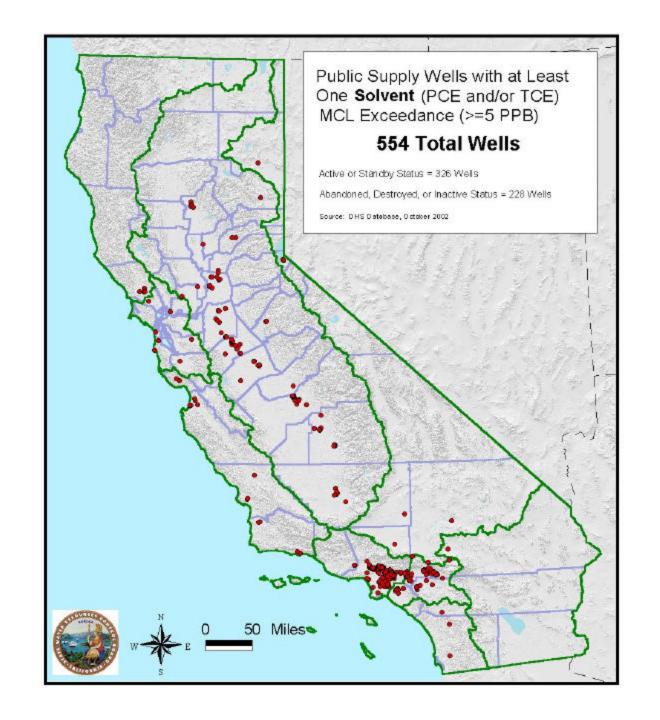


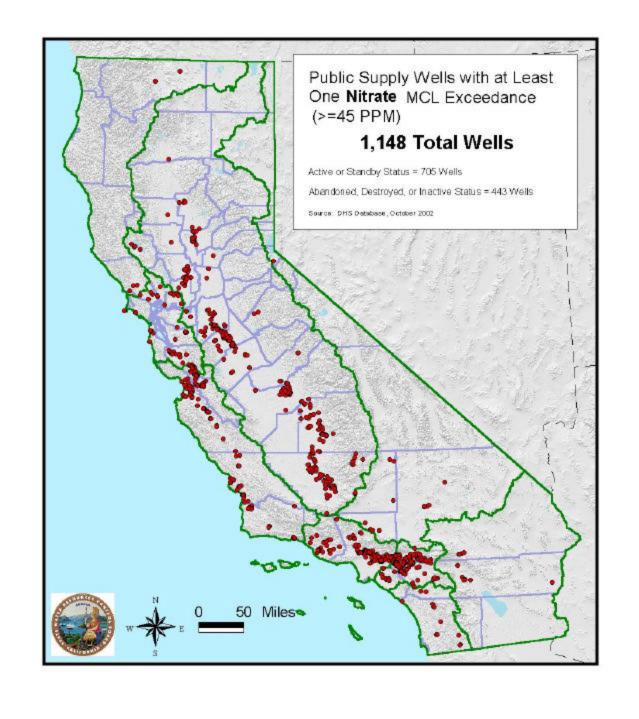












Colorado River PERCHLORATE

Over 870 pounds per DAY into Lake Mead Transported through 3+ miles of groundwater

Since June 2000, less than 500 pounds/day

Hoover Dam, still up to 1000 pounds/day to Lower Colorado River, 5-9 ppb

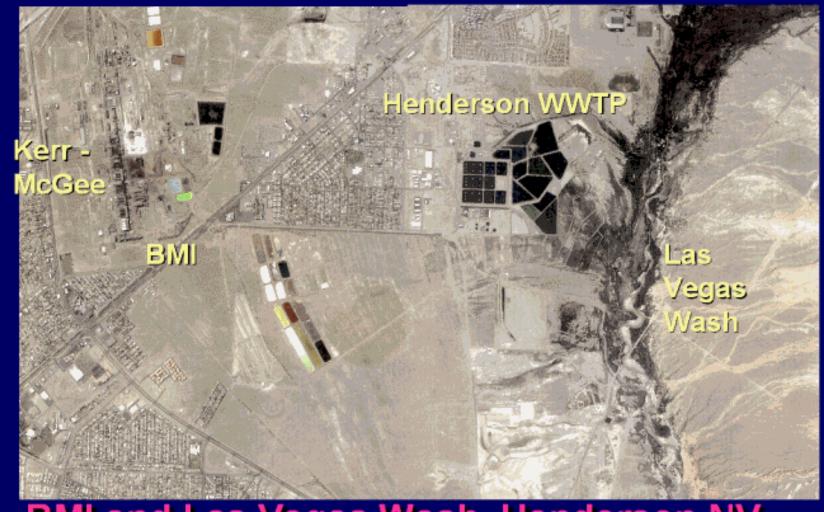
Residence time in Lake/River - Years

Drinking Water Source for 15+ Million Irrigation Supply





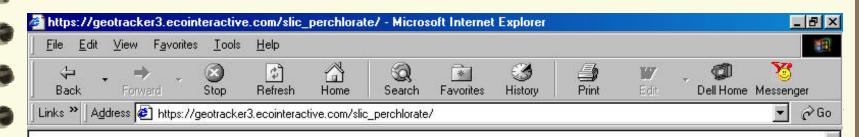




BMI and Las Vegas Wash, Henderson NV

1 Mile 2 Miles 3 Miles



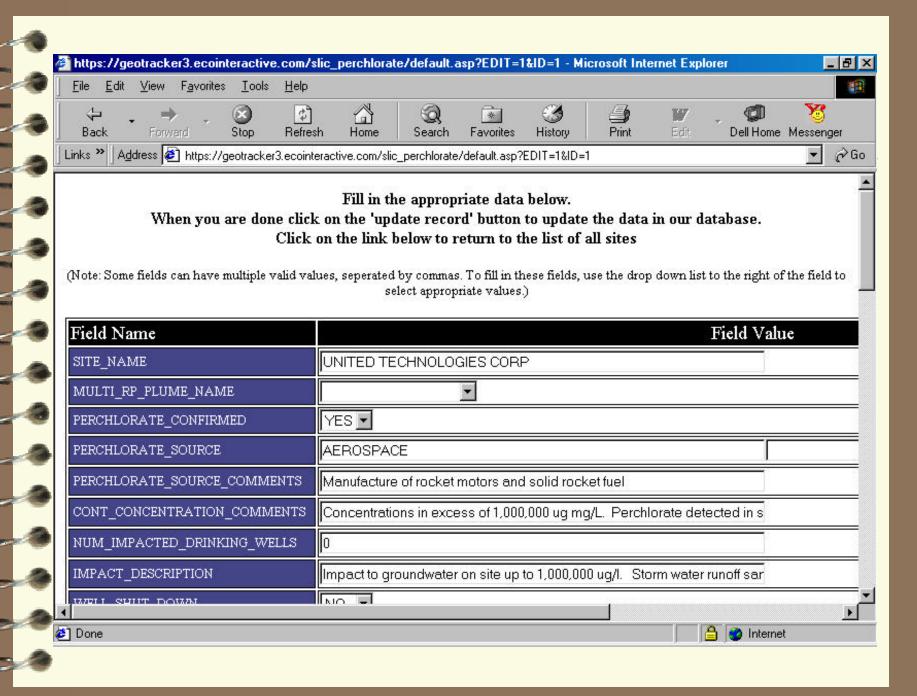


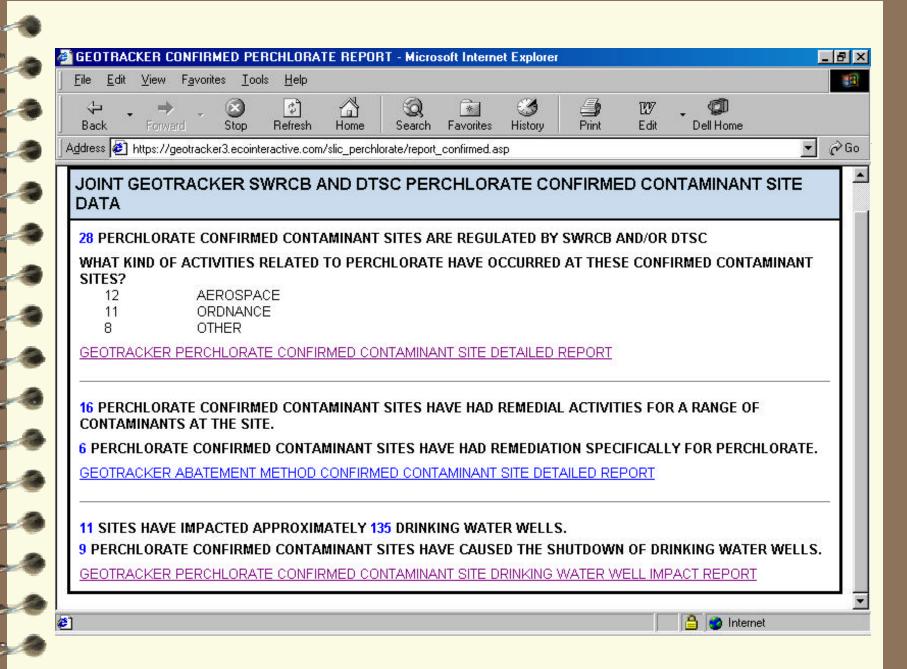
These are the sites currently in our database.

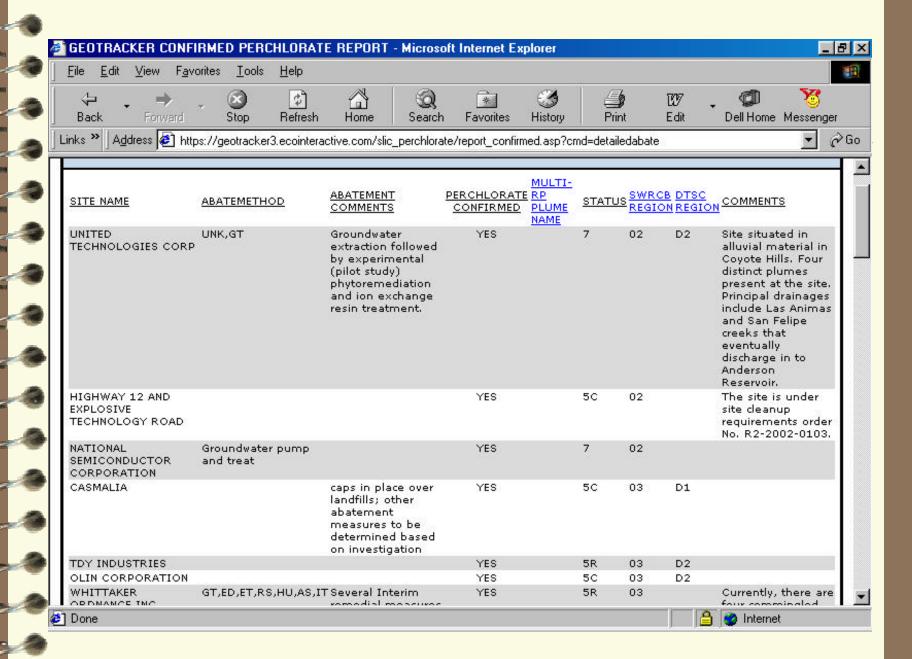
Click on the Edit Record link to change the information for a site.

Call Michael Legg at 530-750-5322 to have a site added or for technical assistance.

SITE_NAME	STREET_NUMBER	STREET_NAME	CITY	REGION	EDIT
UNITED TECHNOLOGIES CORP	600	METCALF RD	SAN JOSE	11117	EDIT RECORD
HIGHWAY 12 AND EXPLOSIVE TECHNOLOGY ROAD	3530	BRANSCOMBE ROAD	FAIRFIELD	02	EDIT RECORD
LOCKHEED PROPULSION CO. (CRAFTON/REDLANDS)	1500	CRAFTON AVENUE	REDLANDS	08	EDIT RECORD
DODSON BROTHERS	19810	MONTE VISTA AVENUE	MONTCLAIR	III IX	EDIT RECORD
ALPHA EXPLOSIVES	3400	NADER RD	LINCOLN	1110.25	EDIT RECORD
AEROJET GENERAL CORPORATION - RANCHO COR	NA	Highway 50 and Aerojet Rd.	RANCHO CORDOVA		EDIT RECORD
MCDONNELL DOUGLAS/AEROJET INACTIVE	ИА	Off Douglas Rd., Sacramento county	RANCHO CORDOVA		EDIT RECORD
AEROJET GENERAL CHINO HILLS		Woodview Road	CHINO HILLS	08	EDIT RECORD
Beale AFB	N/A	N/A	Marysville	05	EDIT







Cal EPA Jurisdiction

- California's Water Code (WC) Division 7 and Health and Safety Code (HSC) Chapters 6.5 and 6.8 contain provisions that govern the cleanup of waste that threatens human health and the environment.
- State and federal law vest the Water Boards and DTSC with the authority to require cleanup of any site in California where a waste or toxic substance has been released, including perchlorate.

Water Board Jurisdiction

- WC Section 13001 identifies the Water Board as the state agency with primary responsibility for the coordination and control of water quality.
- WC Section 13304 allows the Water Board to require cleanup or abate any discharge into waters of the State that causes or threatens to cause a condition of pollution or nuisance.
- WC Section 13267 allows the Water Board to require any person suspected of having discharged waste that could affect water quality to furnish technical or monitoring reports, as long as the cost of the report bears a reasonable relationship to the need for and benefits of the report.

DTSC Jurisdiction

- Under HSC Chapter 6.5 DTSC oversees cleanup activities at facilities that generate, store, treat, or dispose of hazardous waste, and illegal operations.
- HSC Chapter 6.5 is intended to primarily address the management of hazardous waste generated by industries and the bulk of the statute is addressed to the proper management and disposal of such wastes.
- Corrective action (cleanup) is required where hazardous wastes or constituents have been released into the soil, ground water, surface water, or air.

DTSC Jurisdiction

- HSC Chapter 6.8 was adopted with the intent to specifically address cleanup of hazardous substances due to unauthorized discharges.
- DTSC conducts and oversees the remediation of properties throughout the State, including former industrial plants, military bases, small businesses, and landfills that are contaminated with some level of toxic substances in order to protect public health and the environment.

Water Boards and DTSC Cleanup Process

Cleanups under all three programs apply similar processes, including:

- < Site Discovery / Preliminary Assessment
- < Site Investigation
- < Evaluation of Alternatives / Risk Management
- < Selection of a Remedial Action
- < Implementation of the Action
- < Confirmation of Completion
- < Interim Measures (any point in process)

Water Boards and DTSC Cleanup Process

- HSC Chapters 6.5 and 6.8 require compliance with more prescriptive processes that generally follow federal CERCLA, but may result in more thorough evaluation of health risks.
- The Water Code process requirements are generally more flexible allowing more site-specific variation, but focus more directly on water quality than other media.
- Cleanups completed under all three programs generally result in similar final results.

Geotracker Perchlorate Database

- Responding to the growing number of perchlorate contaminated wells, Cal EPA rapidly expanded SWRCB Geotracker to create the **Joint Geotracker SWRCB and DTSC Perchlorate Contaminant Site Database.**
- Geotracker Perchlorate Database will allow for real time updating and sharing of information between agencies.
- Will allow both agencies to better understand perchlorate releases in California.